

IN THE ABSTRACT

Please replace the abstract with follows:

A method for controlling the position of a probe location relative to a fixed reference point of a probe processing apparatus is described. Initially, an optical laser apparatus is coupled to the probe processing apparatus. The position of the probe location is set to fall within a predetermined converging range of a positioning laser beam coming from the optical laser apparatus. The positioning laser beam is then split into a probe beam and a reference beam. The probe beam and the reference beam are polarized in different directions with respect to each other. The reference beam is subsequently combined with a reflected beam formed by the probe beam reflected from the probe location. The phase difference between the reference beam and the reflected beam is detected, and a table on the probe processing apparatus for supporting the probe is adjusted to minimize the detected phase difference.